

**AMENDMENTS TO THE CLAIMS**

Please amend Claims 1, 12, 14, 15, 16, and 52, and cancel Claims 6, 7, 8, 9, and 11 without prejudice. The following listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- Claim 1. (Currently Amended) A method for ~~analysis of~~ isolating a non-proteinaceous small molecule for further characterization comprising contacting a biological sample containing at least one non-proteinaceous small molecule which is not a peptide with a surfactant represented by the formula:



in which

p is 0, 1 or 2;

R is alkyl;

R<sub>1</sub> and R<sub>2</sub> are each, independently, hydrogen or methyl; and

R<sub>3</sub> is selected from -OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>, and -OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>,

wherein R<sub>4</sub> and R<sub>5</sub> are each, independently, lower alkyl; wherein the non-proteinaceous small molecule is dissociated from the biological sample thereby isolating the non-proteinaceous small molecule;

~~the analysis isolation comprises dissociation of a non-proteinaceous small molecule from the biological sample to thereby analyze characterize the non-proteinaceous small molecule;~~

~~and wherein the non-proteinaceous small molecule is not a peptide.~~

Claim 2. (Canceled)

Claim 3. (Currently Amended) The method of ~~claim 2~~ claim 1, wherein the biological sample comprises one or more cells.

Claim 4. (Original) The method of claim 3, wherein the biological sample comprises a tissue culture.

Claim 5. (Original) The method of claim 3, wherein the biological sample comprises a biological fluid, a biological tissue, a biological matrix, an embedded tissue sample, a cell culture supernatant, or combination thereof.

Claim 6. (Canceled)

Claim 7. (Canceled)

Claim 8. (Canceled)

Claim 9. (Canceled)

Claim 10. (Currently Amended) The method of ~~claim 2~~ Claim 5, wherein the biological fluid is selected from the group consisting of blood, blood plasma, urine, spinal fluid, mucosal tissue secretions, tears, interstitial fluid, synovial fluid, semen, and breast milk.

Claim 11. (Canceled)

Claim 12. (Currently Amended) The method of claim 1, wherein the analysis further characterization is selected from the group consisting of solid phase extraction,

solid phase micro extraction, electrophoresis, mass spectrometry, liquid chromatography, liquid-liquid extraction, membrane extraction, soxhlet extraction, precipitation, clarification, electrochemical detection, staining, elemental analysis, Edmund degradation, nuclear magnetic resonance, infrared analysis, flow injection analysis, capillary electrochromatography, ultraviolet detection, and combinations thereof.

- Claim 13. (Previously Presented) The method of claim 1, wherein the non-proteinaceous small molecule is selected from the group consisting of a drug, a prodrug, a metabolite of a drug, and a product of a reaction associated with a natural biological process.
- Claim 14. (Currently Amended) The method of claim 1 wherein the analysis further characterization comprises high performance liquid chromatography.
- Claim 15. (Currently Amended) The method of claim 1 wherein the analysis further characterization comprises solid phase extraction.
- Claim 16. (Currently Amended) The method of claim 1 wherein the analysis further characterization comprises mass spectrometric detection.
- Claims 17-51 (Cancelled)
- Claim 52. (Currently Amended) A method for ~~analysis of~~ isolating a non-proteinaceous small molecule for further characterization comprising contacting a biological sample that comprises one or more cells, said sample containing at least one non-proteinaceous small molecule which is not a peptide, with a surfactant represented by the formula:



in which

p is 0, 1 or 2;

R is alkyl;

R<sub>1</sub> and R<sub>2</sub> are each, independently, hydrogen or methyl; and

R<sub>3</sub> is selected from -OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>, and -OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>,

wherein R<sub>4</sub> and R<sub>5</sub> are each, independently, lower alkyl; wherein the non-proteinaceous small molecule is dissociated from the biological sample thereby isolating the non-proteinaceous small molecule;

~~the analysis isolation comprises dissociation of a non-proteinaceous small molecule from the biological sample to thereby analyze characterize the non-proteinaceous small molecule; and~~

and wherein the non-proteinaceous small molecule is selected from the group consisting of a drug, a prodrug, a metabolite of a drug, and a product of a reaction associated with a natural biological process;

~~and wherein the non-proteinaceous small molecule is not a peptide.~~